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Official Publication Of  
PALO ALTO AMATEUR RADIO ASSOCIATION  
PAARA

**W6OTX**  
Palo Alto Amateur  
Radio Assn.

Affiliated Clubs

**K6YQT**  
Menlo Park C-D  
Radio Club

ORGANIZED FOR  
PUBLIC SERVICE, SCIENTIFIC, EDUCATIONAL AND SOCIAL  
BENEFITS TO AMATEUR RADIO OPERATORS

A NON-PROFIT ORGANIZATION

INCORPORATED 1956

Meetings held first friday each month

NEXT REGULAR MEETING

Date: Friday 4 June 1971

Place: Vets Memorial Building 1455 Madison Ave., RC

PROGRAM: AMATEUR ANTENNAS - A technical discussion  
by Oliver Swan W6KZK, on the potentials  
of High-Gain band pass amateur antennas.  
Oliver will discuss problems met and  
solved in the ordinary amateur installa-  
tion. Bring your questions & problems.

FINAL FIELD DAY PLANS

Vol. XV  
No. 6  
June 1971

## OFFICERS

## ADMINISTRATIVE

PRES: Andy Korsak, VE3FZK  
 V Pres: Bob Allen, W6WQD  
 Secty: Lee Zalaznik, WB6BJB  
 Tres: Vance Wardlow, W6FLE

## APPOINTMENTS

VP PR: Jerry Starkey, WA6LIJ  
 CCRC Rep: Milt Donovan, W6MFN  
 CD Eqpt: Bob Allen, W6WQD  
 Ass't: Glen Baker, W6UOK  
 VI Com: Glen Baker, W6UOK

## BOARD OF DIRECTORS

Chmn: Andy Korsak, VE3FZK  
 Secty: Lee Zalaznik, WB6BJB  
 Member: Glen Baker, W6UOK  
 " Hal Moore, W6DEF  
 " Vance Wardlow, W6FLE  
 " Ed Fairbanks, W6AIN  
 " Gerry Laxson, W6OPA  
 " Clyde Griffin, WA6CBW

Editor: Vance Wardlow, W6FLE, phone: 854 6064, P.O.Box 911.

SUPPORT YOUR CLUBGET INVOLVEDPAY YOUR DUESPARTICIPATEBECOME A PARTICIPATOR

\* \* \* \* \*

FUTURE PROGRAMS

The next big event is FIELD DAY! ! ! Don't fail to get here and participate. Lets make this a banner year! Get in touch with Fred Cinnham, W6QWF, at 691 Casita Way, Los Altos, or give him a call on 948 9238. Fred is the "Ref Honcho" for Field Day and is getting things all up and organized. Lend him a hand, get involved, GO! ! !

D: Friday 9 July: SCARS Host: (Note advanced date) A demonstration and discussion of Slow Scan Amateur TV. Larry Reed, W6CTH, has become very active in this aspect of our hobby. Together with Bill Jackson, W6OWQ, he will give us a complete run-down.

D: Friday 8 August: PICNIC - ALL Clubs participate. Gene Sussli, WA6NVU, organizer and MC. Andy Korsak, VE3FZK, transmitter hunt committee; Gene Sussli, WA6NVU, entertainment committee. EVERY MEMBER AND THEIR FRIENDS: ENJOY OURSELVES COMMITTEE ! ! !

JOIN THE CLUB

JOIN THE FUN

JOIN THE PARTICIPATORS

MEET NEW FRIENDS

MEET OLD FRIENDS

ENJOY LIFE

## REPORT OF 7 MAY MEETING

The meeting was opened by Andy Korsak, President of PAARA who outlined the program for the meeting.

Lee Zalaznik, Secretary or PAARA, gave a report of the last Board of Directors meeting. He announced that he has set up on 3952 KHz, the Western Net. He is also on 14 Mhz at 21405 with the Tri-City Net. Lee is also getting a rig all set up in the PAARA trailer at SRI for emergency and regular use by members.

Gerry Laxson brought along samples of name-plate desk stands made at the Vets Hospital in Palo Alto. These make a very nice appearance, sell for \$3.50 and may be obtained by contacting "Doc". He also announced the price of lapel name-plates at \$2.00 with pin or the desk size name plate alone at \$2.50.

Jack McEnnerney, W6LII, gave us a rundown on the very successful code classes he and Jack Pierce, WA6CCH, are running at the Firehouse in San Carlos. Their students are passing their exams with no trouble at all. Good going to both of you! !

The main event of the evening then got underway. The MAGIC SHOW was tremendous! !

Mrs Bob Allen, with the help of Norm Gordon, WA6NFM, gave us a beautiful demonstration of just how to completely "DISINTIGRATE" right there in front of all of us! !

The fine contingent of kids

3  
who attended really got a big kick out of it (and don't you think that the older "kids" weren't amazed!). Norm then proceeded, with the help of his beautiful daughter, to demonstrate a most advanced "Lie Detector". Boy could it detect the "Whoppers" when they were put into the machine. And finally the biggest "Whooper" of them all caused it to completely blow up!! WOW ! Parts all over the place! ! Norm had many other very fine demonstrations of his ability as a magician. Very fine Norm.

Then came Gerry Laxson, WA6OPA. And BOY! If you don't believe that rabbits grow and hide in top hats you have never seen Gerry work his magic! He also convinced the audience that there is practically no end to what can be brewed up in his magic cauldron! Doc really proved that the hand is quicker than the eye.

A very fine evening of entertainment and thanks loads to both of you - Norm and Gerry.

Art Fury, WA6JLJ, of the Signetics Corporation then gave us a rundown on their NE540K. This IC can drive a pair of transistors to 50 W output! Because of a "goof" in manufacture many of these were produced with a shorted circuit. However Art had the dope on how to eliminate the short and put the IC to work as a fully operative item. He then proceeded to give away to all present FREE SAMPLES!

THANKS ART- FINE SHOW

4  
FIELD DAY

Here she comes around the bend! That old Field Day is creeping right up on us and demands we get going on our preparations for a real big day of it!

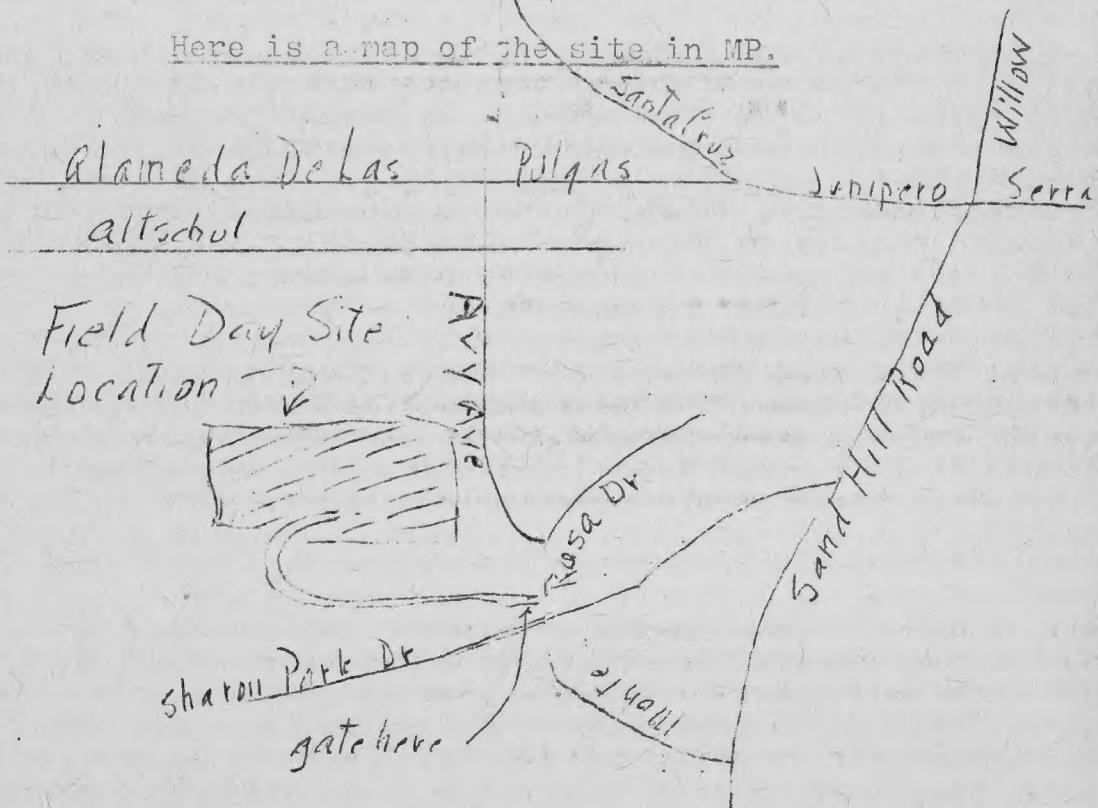
Fred Canham, W6QWF, Lee Zalaznik, WB6BBB, Hal Moore, W6-DEF, Les Vickery, W6AKR and some others made a preliminary inspection of the Field site on the high spot of Sharon Park, Menlo Park. They had a real fine time trying to visualize just where to put up the antennas, park the trailer, set up the chuck-wagon, etc. Looks real good and should guarantee some fine contacts.

Fred went over to Oliver Sweningsens, WA6QGX, picked up the steel masts. They needed some repair so Fred turned to and got them all in first class shape.

Lee is working on getting the 3 element beam all in first class order so we can squirt that signal at anyone who makes a peep on the air that day. He is getting together with Bob Allen, W6WQD to make double sure it is in the best of condition.

Ed Fairbanks, W6AIN, is on the job getting the emergency power supply all lined up and ready for 24 hours of operation.

Here is a map of the site in MP.



## MORE ON FIELD DAY

We have been given permission to use the Field Day Site by Mr. Duncan MacDonald who is property manager for the Sharon Heights development Company. He was very cooperative and helpful. Of course we are completely responsible to assure that no fire or other problems arise, nor can there be any large and noisy gathering.

The area is fenced off and the public is not allowed to enter. The entrance gate is locked. Mr. MacDonald will arrange for us to get into the site as necessary to get set up and operate.

Lee has arranged to get the score cards and logs for the big day. He will have his set there for operation by himself and when he falls off the chair he just may let someone else call a few CQ's! Stay with it Lee we need that high score.

Andy still has hopes of getting a prototype of his little 2 meter rig on the air for the bug day. This in spite of the new rule that low power is of no real advantage. Oh well it will be nice to see that rig actually make a contact Eh?

If any of you fellers have  
not yet given Fred the word  
about participating - GET ON  
THE BALL! ! ! !

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## WELCOME NEW MEMBERS

Irvin M. HOFF, W6FFC

Irv is a United Airlines Pilot who has become a rabid experimenter in Ham Radio. He has the finest line-up of equipment you have ever seen. Irv has particularly gone into RTTY. We had the pleasure of having him address the Clubs some time back. A fine talk.

Nice to have you aboard Irv.  
We all hope you will enjoy  
the activities of the Club as  
much as we enjoy having you  
as a member. We will try to  
make a real PARTICIPATOR out  
of you!

Paul R. BARRY, (NC) KQA6650  
Paul is struggling with the rest of our beginners to get that old 13 WPM down pat so he can get his license. In the mean time he is active on the CB bands bearing a hand when ever possible to help anyone out of trouble.

Paul is the manager of the  
RADIO SHACK at 248 Hamilton  
Ave., Palo Alto. Drop in to  
see him, show him your member-  
ship card in PAARA and he will  
give you a 10% discount!

Nice having you aboard Paul.

II II

JOIN THE CLUB

DUES ARE \$1.00 per year

Write P.O. Box 911, Menlo Park.

FOURTH OF JULY

BE PREPARED

LEND A HAND

The annual Redwood City 4th of July Parade will again be held this year. This is known as one of the outstanding parades in the USA ! ! !

As in the many years past the Parade Marshall is depend-on the Hams to provide the communications for coordinat-ing the many floats as they proceed on the parade route.

Any of you fellers with a mobile 2 meter rig should get in touch with Hal Moore, W6DEF and let him know when you can be available. Hal is coordin- ating with Dick Collins, K6ANN in the organization of the communications facilities. The parade lasts about 4 hours. Distances are short but active control of the many floats is very essential.

Make plans to participate now. Call Hal on 368 0444 or Dick on 368 1127.

This can be a rewarding and interesting experience. Get in on the fun!

+ + + + + + + + + +

JOIN THE CLUB PARTICIPATE

SEND YOUR \$4 FEE

TO P.O. BOX 911, MENLO PARK

BE A PARTICIPATOR - GO - GO !

Thinking if 2 meters - How many of you have made a contact with Hal Moore, W6DEF on 145.49 lately? Hal monitors that frequency each night about 1930 or close to that time as he clears or the NCN Net. Hal appreciates these calls and is one who really enjoys such contacts. GIVE HIM A CALL.

Been on a long plane trip across many time zones lately?

Pan American Airlines has an explanation of that odd feeling of unreality. Hal Moore ran a little contest recently on the meaning of "Dysrhythmia".

Pan Am says: The human body including the brain, consists of a number of "biological clocks". Some of these are based on the cycles of light and darkness, the approximately 24 hour cycle often referred to as the "circadian rhythm". Other cycles run on individual habits, eating, working, playing, etc. These are private, personal chronographs. The need for rest somewhere during the 24 hour period is probably the most important "clock".

"Dysrhythmia" is the word to describe the real, potential and imaginary upsets of the body's biological calocks caused by moving, at jet speed, across time zones.

=====  
Now don't let us become infected with SESQUIPEDALIANISM ! ! !

(Given to the use of long words!)

Thanks Hal and 73

I am sure all of us are very conscious of the new rates on our mail. However I am also sure none of us want to go through what or very active member "Lucky" Rogers, WA6JXO, experienced recently.

Lucky filled out the form and sent his check in to FCC for his license renewal some time in January. Came February and no license - he wrote FCC. They replied that they had sent his license - just wait. Lucky wrote again with the same results. WHAT DO?

March passes by and Lucky is beginning to think of April Fools day coming up! ! !

Then he received the license!

It had been sent to Vietnam! ! Of all places. A fellow ham recognized it out there, placed Luckys envelope from FCC in another envelope and sent it along to the right address. (The original address was also correct)

Guess we can only say "All's well that ends well" - Eh?

Now that Luck is "legal" again he is really going to town on his camper and mobile station. Has a brand new camper in which he has installed a complete 12 volt system for his equipment with a 2 KW AC motor-generator for emergency power. Has a 100 gallon spare gas tank and another 100 gal tank of butane.

Lucky is looking forward to retirement when he can point that camper toward the sun and take off! ! !

Good going Lucky C U Arnd!

I'm sure all our members know we are an affiliated Club with the ARRL. All of you who subscribe to QST should contact Lee Zalaznik, our Secretary, when you renew. The Club gets a small part of the subscription price in each such case. WE NEED THE CASH! ! !

Contact Lee by phone on 325 1168. Or better yet to be sure the address and name is correct write him a note at 1735 Woodland Ave., Palo Alto, Ca. 94303.

#### SUPPORT YOUR CLUB

Say if any of you fellers are interested in real fancy business or personal cards get in touch with AMPLE PRINTING, 368 6429, at 677 2nd Ave., Redwood City. 94063. Bob Mitchell has acquired a machine for printing GOLD LEAF cards! Boy how fancy can you get? They are really handsome.

\* \* \* \* \*

Have a very nice brochure describing the West Coast Amateur Radio Service (WCARS). This is an organization of amateur radio operators who are dedicated to providing service to citizens in general and hams in particular. They maintain constant watch on 7255 KHz for calls from mobile units. They coordinate all such calls received and assist whenever a problem arises.

A VERY FINE SERVICE

With the proliferation of transistorized equipment of all kinds throughout the USA, both foreign made and domestic, there has developed a greater problem of interference from TV sets. Charlied Dean, WB6CZO, editor of THE MODULATOR of the Citrus Belt Amateur Radio Club, gives us a list of high pass filters available from various manufacturers to help solve these problems:

| <u>Manufacturer</u>        | <u>Where to Write</u>  | <u>Filter Supplied</u>   | <u>Note</u>                         |
|----------------------------|--|--|-------------------------------------|
| Motorola                   | Consumer Products Div.,<br>Consumer Relations Dept.,<br>9401 W. Grand Ave.,<br>Franklin Park, IL 60131   |  |                                     |
| Heath                      | Benton Harbor,<br>Mich., 49022   | 1. Drake TV-300-HP, or<br>2. Reimbursement for<br>locally procured filter<br>upon receipt of invoice |                                     |
| Olympic International      | 89-89 Union Turnpike<br>Glendale, N.Y. 1227  | Drake TV-300-HP  |                                     |
| Westinghouse Electric Corp | Portable Products Div.<br>P.O. Box 333<br>Edison, NH 46201   |  | No longer makes TV                  |
| RCA Sales Corp             | 600 N. Sherman Dr.,<br>Indianapolis, IN 46201  | Drake  |                                     |
| Magnavox                   | 7 regional service centers<br>East Rutherford, NJ;<br>Atlanta, GA;<br>Westlake, OH<br>Skokie, IL<br>Dallas, TX<br>Torrance, CA<br>So. San Francisco, CA. |  |                                     |
| TMA Company                | 1020 Noel Ave.,<br>Wheeling, IL 60090  |  | Muntz TV<br>TMA TV<br>Howard Stereo |
| Emerson                    | Emerson TV Sales Corp.,<br>Jersey City, NJ 07302   |  |                                     |

(Continued page 13)

PALO ALTO AMATEUR RADIO ASSOCIATION  
(PAARA)

ARTICLES OF INCORPORATION.

STATE OF CALIFORNIA  
DEPARTMENT OF STATE

To all to whom these presents shall come, Greetings:

I, FRANK M. JORDAN, Secretary of State of the State of California, hereby certify:

That the annexed transcript has been compared with the RECORD on file in my office, of which it purports to be a copy, and that the same is full, true and correct.

In testimony whereof, I, FRANK M. JORDON, Secretary of State, have hereunto caused the Great Seal of the State of California to be affixed and my name subscribed, at the City of Sacramento, in the State of California, this 2nd day of March 1956.

s/ Frank M. Jordon

316870

ARTICLES OF INCORPORATION

PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

We, the undersigned, have this date voluntarily associated ourselves together for the purpose of forming a corporation under the laws of the State of California and we do hereby certify:

One: The name of this corporation is:

Palo Alto Amateur Radio Association, Inc.

Two: The specific and primary purposes for which this corporation is formed are:

- (a) For scientific and educational purposes;
- (b) To foster better friendship and closer cooperation between amateur radio operators living in the vicinity of Palo Alto;

1690 PLYMOUTH AVE., MOUNTAIN VIEW

PHONE: 969 0510

SURPLUS ELECTRONIC TEST EQUIPMENT AND COMPONENTS  
USED AMATEUR RADIO TRANSMITTERS AND RECEIVERS, CITIZEN BAND

THE LOWEST PRICES IN THE AREA

HOURS: 9 A.M. to 5 P.M.  
CLOSED SUNDAY

WE HAVE A SPECIAL DEPARTMENT SET UP FOR AMATEUR RADIO EQUIPMENT AND TEST COMPONENTS. WE ALSO WILL HELP YOU SELL YOUR EQUIPMENT ON A BASE OF CONSIGNMENT. LOOK OVER WHAT WE HAVE - WE WILL TRADE, HELP FINANCE, CIN SIGN FOR TRIAL, OR ANY REASONABLE ARRANGEMENT TO ASSIST YOU GET GOING.

IF YOU MISSED OUR OFFER OF 1/3 OFF  
LAST MONTH  
LOOK IT UP AGAIN - BRING IN YOUR COUPON - DON'T MISS THIS OPPORTUNITY

BUY YOUR EQUIPMENT BY THE POUND!

WE HAVE LITERALLY TONS OF ALL KINDS OF EXCELLENT COMPONENTS AND PARTS WHICH ARE IDEAL FOR EXPERIMENTATION AND BUILDING WHICH ARE AVAILABLE TO YOU BY THE POUND! LAY OUT YOUR PROJECT THEN VISIT OUR STORAGE YARD AND SELECT THE ITEMS YOU CAN USE IN GETTING THE PROJECT COMPETED. WE HAVE A TREMENDOUS SELECTION OF PARTS.

AND IF YOU NEED IC'S

WE HAVE 'EM

A VERY FINE SELECTION OF IC's FROM THE LEADING MANUFACTURERS ALL IN FIRST CLASS CONDITION AND PERFECT FOR YOUR EXPERIMENTS. TAKE A LOOK AT THE COUPON BELOW!

BRING THIS COUPON TO

HALTED SPECIALTIES CO., 1690 PLYMOUTH AVE., MOUNTAIN VIEW

**25% OFF**

YOU WILL SAVE 1/4th ON THE LIST PRICE OF ANY IC IN OUR EXTENSIVE STOCK  
( Does not apply to parts of pieces)

Any time during the months of June or July present this coupon for 25% off

## ICLES OF INCORPORATION, Cont'd -

- (c) To elevate the standards of amateur equipment and operation;
- (d) To secure the benefits of social and educational contacts from the members;
- (e) To aid the Federal Communications Commission in the giving of license examinations, in the enforcement of laws and regulations with respect to amateur radio operation, and to assist in the investigation and suppression of television and radio interference;
- (f) To cooperate fully with Federal, State and local officials in the maintenance of emergency communications and particularly in the establishment of civil defense communications;
- (g) To receive gifts and bequests; to own, control, buy, lease, rent, sell, acquire, hold, convey, mortgage, hypothecate and otherwise deal with or dispose of personal property, particularly, but not limited to, radio communication equipment;
- (h) Do each and everything necessary, or suitable, or proper for the accomplishment of any of the purposes or the attainment of any one or any of the subjects herein enumerated or conducive to or expedient for the interest or benefit of said corporation and to contract accordingly; and in addition exercise all powers, rights, and privileges necessary or incidental to the purpose for which said corporation is organized or the activities in which it is engaged. If at any time this corporation should be dissolved or its corporate existence should cease, or its charter should be revoked, no part of its funds or property shall be distributed to or shall inure to the benefit of any member or other individual, but after payment of all indebtedness of the corporation, its remaining funds shall be distributed by the Board of Directors for the furthering of scientific and educational purposes in the field of amateur radio communications;

Three: That this corporation is organized pursuant to the General Non-Profit Corporation Law of the State of California.

Four: The county and state of California where the principal office for transaction of business of this corporation is to be located is Santa Clara County.

Five: This corporation is formed as a corporation not for profit to the members thereof.

Seven: Number, classification & term of officers established by by-laws.

(By-Laws next issue)

## HIGH PASS FILTERS AVAILABLE FOR TVs (Cont'd from page 8)

| <u>Manufacturer</u> | <u>Where to write</u>  | <u>Filter supplied</u>                        | <u>Notes</u> |
|---------------------|--|---|--------------|
| Philco              | Consumer Service<br>P.O. Box 3635<br>Philadelphia, PA 19125  |   |              |
| Zenith              | Service Department<br>Zenith Sales Co.,<br>5801 W. Dickens<br>Chicago, IL 60639                        | Zenith Part No.<br>S58500 (TV)<br>S58510 (FM) |              |
| Sylvania            | Customer Service<br>Sylvania Entertainment<br>Products Group<br>700 Endicott St.,<br>Batavia, NY 14020 | Drake 300                                     |              |
| Sears               | Dept 698/731A<br>Staff Offices<br>Sears, Roebuck<br>925 S. Homan Ave.,<br>Chicago, IL 60607            |   |              |

NOTE: Whenever writing to a TV set manufacturer about TVI problem, supply complete details, including the model and serial number of the TV set involved, the name and address of the TV set owner, the name and address and call letters of the amateur involved, and particulars on the interference problem i.e.--(channels affected, frequency of amateur transmitter, sound or picture affected, distance between TV set and transmitter).

ARRL, March 1971

All Clubs should get this info to their TVI committee. Be sure that committee has notified the local FCC office of their availability to assist in TVI problems.

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Note to all you hams in the San Carlos-Belmont area:  
JOIN UP WITH YOUR LOCAL CLUB - IT WANTS TO HELP YOU GET AHEAD  
Get in touch with Gene Sussli, WA6NVU, phone 349 6178 or  
write him at 3501 Branson Dr., San Mateo, Ca. 94403.

This is an up and coming Club with a real group of PARTICIPATORS. They have a fine code class going and will improve your code speed or give you help on the technical problems. Upgrade your license.

LET SAN CARLOS HELP YOU HELP YOURSELF

REPORT OF THE SAN CARLOS AMATEUR RADIO CLUB  
(SCCDARC)

FRIENDS AND FELLOW MEMBERS, TODAY IT IS MY SAD DUTY TO INFORM YOU OF THE DEATH OF MEL CHERRY, WNGHYX.

Mel passed away last Monday May 24th, at the Mills Memorial Hospital in San Mateo after suffering a massive heart attack just the previous night. As you all probably know, he had a heart attack about three years ago but he pulled out of it alright and then became interested in Amateur Radi-

Mel wasn't a teenager anymore. Back in early 1969 as he and his son Mark enrolled in the code classes of the San Carlos Club. His code instructor, Bill Jackson, W6OWC, remembers Mel as the hardest working pupil in his class which is the reason they both became such close friends. It was Mel who reintroduced me to ham radio. I learned code from his records and he picked me up one Thursday night and brought me to the San Carlos Radio Club and introduced me to its members. Mel was a rather quiet man and he never tried to push himself into the spotlight. Hard work was his trademark and he did more than his share in committee work and all other activities of our Club. He was elected Vice-President of the San Carlos Radio Club for the year 1970. Of course it was Mel again who, as V-P, without any questions provided the Club with coffee and refreshments at the end of every business meeting, since we did not have a refreshment committee. Even as late as a week ago Mel filed the application to take the exam for the Technicians License. But it did not have to be. Mel has departed us and he will be missed very much. The Board of Directors wishes to extend our sincere condolences on behalf of our entire membership, to his wife Elsie and family.

On the bright side I'm happy to report that two new members have joined our Club. KEVIN THOMPSON, WB6PCV, has rejoined us after about a one year's leave of absence and a new-comer to this area, KEN KEELER, WA6DKF, has vowed to help us win our local Field Day competition. Ken hails from W2-land and now calls Belmont his home. Our membership roster now stands at 19, or five more to go for an even two dozen!

From some outside sources I've learned that this little San Carlos Club is being heard of at the CCRC meetings. Our delegate, Fred Howard, K6EER, is doing a very fine job and seems to be somewhat shaking up that venerable organization. That

(SCCDARC Cont'd)

man wants ACTION! ! not idle talk, and to get things rolling, he proposed each Club canvas their membership to see how many hams around the Baystill have the old 49er spirit and are willing to work hard to get the Extra class ticket. Fred himself is willing to get a class started with on-the-air instructions So let Fred know what day would suit you best to start a self improvement course and then as a prize get to use the whole spectrum of the ham radio frequencies. By the way, at the last CCRC meeting Fred was accompanied by our youngest member, GREG GARCIA, WB6DAI. Greg, I believe is only 15 years old, but is a very sharp lad and is a real credit to our Club. He got his novice license when he was about 13 years old and subsequently upgraded it. This Field Day he will be operating on 2, 6 and 10 meters phone. He would like to put an RTTY station on the air for the duration of the contest, but our Field Day Chairman will have to decide if the click-click-click's could be tolerated by the other stations next door!

Most of our last business meeting was taken up discussing Field Day. Station Captains were appointed, after we agreed on a set of rules under which our Club will operate in this contest. We probably will man 6 stations, including one for Novices. Would you believe we are going to try to raise an 80 meter antenna by means of a 70 foot balloon? No? Would you believe an 8 foot balloon? Well, we will let you know when we see our balloon and antenna wire for the last time. The meeting concluded with some industrial espionage. We watched a 20 minute silent movie (but it was in living color) on how the Tacoma Radio Club operated on Field Day. By the way, it wasn't a bad show, considering they were just amateurs.

I also heard rumblings that Redwood City has chickened out of Field Day! I understand Larry Reed talked his son into getting married on the last weekend in June, so he wouldn't have to eat his own words about winning the contest! Gee Whiz Larry, where are your supporters? Or are you the only member of the Redwood City Club? Just remember, the loser pays for the trophy, either by a low score, or by forfeit! !

Some other good news comes from Belmont. Bil Jackson, W6OWQ, has just been appointed by ARRL as EC for the Belmont-San Carlos area. Congratulations, Bill, I know you have some big plans in store to get an efficient Civil Defense organization going in this area and get the young members involved by holding weekly drills. That's something we need to keep up the interest of our younger set. 73 Gene Sussli, WA6NVU

# RED JOHNSON

## ELECTRONICS

reminds you, it's

- VACATION TIME
- GRADUATION TIME
- CAMPING TRIPS, etc.

{ NOVICE'S:

- build up ur own SSB XCVR
- become a REAL HAM

coming up

So - -

means time you'll have to build

- that linear you've been wanting (boots for your BARE FEET!)
- a portable QRP rig for camping, mountain hikes
- a SLOW SCAN TV station  
(PAARA has P.C. boards available for a camera)
- intercom for your trailer or camper
- trailer for your car or truck

There's no better place for all the parts you'll need - at RED's you'll find both surplus and new parts at bargain prices: EXAMPLE: Resistors 4¢ (#3.00 /100)

440 Pepper, Palo Alto.

|     |     |      |
|-----|-----|------|
| M-F | 6-8 | SUN. |
| SAT | 8-6 | 10-2 |

326-608

Have received from Phil McQuatters, WB6ETE, president of THE CITRUS BELT RADIO CLUB in San Bernadino one of the finest Directories of amateurs in the Southern California Counties I have ever seen. It lists by call, city and name. All cross referenced to make it very easy to locate anyone. FINE JOB PHIL.

\* \* \* \* \*  
Phil quotes some interesting statistics in the March issue of THE MODULATOR:

#### CLUB COMPARISON

|                    | Av. ARRL C+C Club |        |
|--------------------|-------------------|--------|
| Avg members        | 33.7              | 69     |
| Avg attendance     | 17.3              | 58     |
| Avg dues           | \$7.45            | \$5.00 |
| Extra Class        | 3.2               | 5      |
| General Class      | 12.8              | 29     |
| Advanced Class     | 7.8               | 22     |
| Technician Class   | 4.4               | 6      |
| Novice Class       | 2.7               | 5      |
| Upgraded (1968)    | 3.8               | 12     |
| Unlicensed         | 3.0               | 1      |
| SSB                | 15.3              | 52     |
| AM                 | 6.9               | 32     |
| FM                 | 4.7               | 6      |
| CW                 | 11.0              | 38     |
| RTTY               | 1.7               | 10     |
| ARRL Appointees    | 1.4               | 2      |
| AREC/RACES Ops     | 6.6               | 43     |
| RACES station lic. | 2.2               | 11     |
| Generators         | 2.5               | 10     |
| Mobiles            | 9.0               | 33     |
| Port. Rigs         | 2.1               | 9      |

Thanks for the dope Phil. This gives a good basis for comparison of our own Clubs. Of course what we all need is active participation by all members.

#### GIVEAWAYS FREE FOR THE TAKING

Ed Fairbanks, W6AIN, come in with a set of vacuum tubes which may be of some value to someone.

- 4 - 12SK7
- 2 - 12K8
- 1 - 12SF7
- 1 - 12SR7
- 1 - 12A8

All new - if you can use em get in touch with Vance 854 606

Still have the airplane type AM broadcast band receiver. It is designed for 28 volts and can be converted. COME GET IT.

Several power supplies in the 200 to 400 volt range.

Audio amplifier - old but good.

\* \* \* \* \*  
Note to Club Presidents & Secretaries of Amateur Radio Clubs in the Peninsula area:

PAARAGRAPHS is mailed to about 350 active hams in this area. If your Club members are not on our list we will be happy to add them. Our aim is to distribute common news to ACTIVE hams in this area. Also if you have news items or announcements you wish to distribute drop me a write-up. Will be happy to cooperate.

In return we will appreciate it if you will patronize our advertisers - let them know you saw his ad in our paper PAARAGRAPHS. Thanks.

## TWO-METER PROJECT REPORT

by Andy Korsak VE3FZK/W6

## GOOD OLD MURPHY IS STILL HANGING ON

Trust old Murphy -- whoever he was-- to give you a hard time as long as possible! I no sooner got rid of the v.h.f. oscillation in the I.F. strip than another screwy instability showed up, apparently at the interface of the phase-lock loop and noise amplifier for the squelch. This was evidently eliminated when I by-passed the noise amp. input with a 0.02 mf. capacitor, but the result was that the high frequency components of the audio output from the p.l.l. were attenuated too much and the sque lch wouldn't function properly. I'm about ready to give up with this frustrating business-- it sure is easier said than done to design a circuit that works right. What bugs me is that my circuit was working well in "klooge" form and it seems I'll just have to start all over again with a new p.c. board layout. I think this time I won't try to lay out the components in any logical fasion-- I'll just toss them down ona pece of paper and and wire them up as the are. That will confuse the heck out of old Murphy and throw him into such a loop that he won't know where to strike, and maybe the thing will work!

## PORTABLE ANTENNAS CHECKED OUT IN BELMONT HILLS

Gene Sussli and I tested his recently completed 2-meter beam and quad, using a 2-er I borrowed from Andy Allen (actually, it belongs to his dad, "Doc" Allen) and a vibrator power supply for it. We went way up in the Belmont hills in order to get away from reflections off a hill by being above any hills that could do any reflecting. Of course, Murphy found a way for signals to bounce off a hill back of our contact at the other end, so why fight it! Anyway, the two antennas proved to have phenominal front to back ratios and deep nulls at several side bearings although we had some doubts regarding the validity of measurements provided at the other end by Fred Simfield, W6GUQ, and Nolan Lewis, WB6CKT, who are next-door neighbors on top of a hill in Belmont. I think that when you turn down the r.f. gain in some low-band receivers the S-meter is no longer correctly calibrated in d.b. Can someone correct me on this? Anyway, Fred was reporting 60 d.b. front to side ratios, which somehow seem too high. You coulnt have built that good antennas, Gene!

## AUSTRALIANS TO THE RESCUE!

Cliff Wylie, VK2ZIW, wrote me again asking about our progress, and he enclosed an article from AMATEUR RADIO, the Australian magazine, about a 2-meter FM transceiver circuit all debugged and ready for us to copy, based on years of efforts on the part of the AUSTRALIS satellite team. It also uses latest i.c.'s and p.c. board layouts are available.

How convenient! Just when I'm getting about frustrated enough to quit, this circuit will come in real handy. I will order copies of their p.c. boards, and I will try adding some of my modifications so we can use the p.l.l.'s we have as FM detectors instead of the quadrature detector they used. Also, we want AM operation and tunable front end, so quite a few mods will have to be made, but at least they have a good skeleton for me to build on. Also, any of you guys who is waiting for me to get finished with my design (if you haven't given up hope by now) can just build the Australian circuit as is provided you are interested in repeater operation only. Maybe you could add AM modification later.

The article on this appeared in the March issue of AMATEUR RADIO, 1971. The power output is 10 watts, and the squelch turns on the audio with 0.3 microvolts at the input. If you leave off the output stage, you get about 2 watts out, just about right for a battery powered, hand-carried rig. The entire receiver is on a 7.5 by 4.25 inch p.c. board. The converter has two r.f. stages.

ARRL PACIFIC DIVISION CONVENTION - DON'T FORGET IT ! ! !

Place: Hyatt House, San Jose

Date: July 3 & 4;

Price: \$ pre-registration until June 26; then \$14.

Special: \$20 per couple for Price OM&XYL or YL to 26 July

NOTE: NO ANNUAL GREATER BAY AREA HAMFEST this year.

= = = = = = = = =

Very sorry to hear of the illness of the Editor of the CCRC CIRCLE, Bill Ray, W6KZF. Stay in there pitching, Bill. We all very much appreciate your fine work with the CCRC CIRCLE. We are very thankful to K6OJO and assistant for their fine fill-in job.

Hope your recovery is quick and complete, Bill.

ARMED FORCES DAY

15 May

How many of you got on the air for Armed Forces Day? This annual exercise in good operating is a lot of fun for a lot of fellers. And the most fun is probably those who get to go to NPG and operate on REAL high power.

The Navy does a fine job of feeding and housing those who participate. Plan it for next year - Eh?

Hal Moore, W6DEF, had an unusual experience! He monitored very carefully, tuned up on the frequency of a ham working NPG and at the end of that QSO called NPG. An immediate reply from the operator was "Hello Hal thanks for the QSO" ! ! !

It was an old friend from the Northern California Net! ! !

\* \* \* \* \*

# QUEMENTS

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